Atlantic Richfield Company

Jack Oman Project Manager 4 Centerpointe Drive LaPalma, CA. 90623"1066 (714) 228"6774 office (714) 670"5195 fax jack.oman@bp.com

September 4, 2013

CERTIFIED - RETURN RECEIPT REQUESTED

Ms. Jere Johnson Remedial Project Manager U.S. Environmental Protection Agency Region 9 75 Hawthorne Street, SFD"9"1 San Francisco, CA 94105

Subject: August 2013 Monthly Report, Yerington Mine Site, Lyon County, Nevada:

Administrative Order for Remedial Investigation and CERCLA Docket No. 96200760005; Administrative Order on Consent, CERCLA

Docket No. 096200960010

Dear Ms. Johnson:

Pursuant to the above referenced orders issued by t he U.S. Environmental Protection Agency "Region 9 (EPA), Atlantic Richfield Company (ARC) has prepare d this August 2013 monthly report for RI/FS and Operations and Maintenance (O&M) activities at the Yerington Mine Site (Site).

August 2013 Activities

Site Security and O&M Activities

- Continued Site O&M, security and bird deterrent ac tivities. Cameras at various locations (e.g., Main and Arimetco gates, entrances to buildings) in dicated no activity of concern.
- With the exception of the Pumpback Well System (PW were in operation, including the unit located at the Slot Pond. Following the July 4 rain event, a wind dancer was activated on the berm between the middle and south Lined Evaporation Pond (LEP) cells. Propane cannons were operated at the Arimetco Fluid Management System (FMS) ponds with the exception of the VLT Pond, as directed by EPA, with start/stop times adjusted to accommodate daylight hours. Bird Gard towers 'A', 'B' and 'C' around the PWS and LEP continued to operate. ARC resumed bird mitigation activities at the VLT Pond.
- Arcadis observed the bird mitigation program, cond ucted refresher training, and upgraded training materials, on August 1.
- Arimetco FMS pond levels: Phase 1 Pond = 3.67 feet
 Pond = 11.03 feet; Slot 2 Pond = 11.97 feet. Appro
 Transferred from the VLT pond to the FMS Evaporation in Pond on August 14 to test the new pump. See attached monitoring data.
- Approximately 32,248 gallons of solution were pump gallons from SD2 near the Slot Pond and approximate ly 19,813 gallons from VLTD1 at the VLT Pond. A total of approximately 1,229,904 gallons o f solution have been pumped from the leak detectors since January 1. See attached monitoring data.
- A dedicated pump, float switch and flow meter were installed in the leak detector at the VLT Sediment Pond.



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August 2013 Activities 6 Continued

Site Security and O&M Activities " Continued

- Broadbent Engineering, Summit Engineering and Dese rt Engineering investigated, on August 7, the locations for the new evaporation ponds to be located adjacent to FMS Evaporation Pond.
- Continued to check on access to the LEP and UEP fo r the application of dust suppressant and, due to a precipitation event on August 21, dust suppression equipment cannot access the ponds.
- Fawcett Electric completed electrical modification s at the EPA trailer and front gate on August 1.
- Safety barrier blocks were installed and painted t o prevent vehicular traffic from entering the area of the new wash pad.

Site Characterization Activities

- Monthly groundwater elevation measurements were ob tained August 27"29.
- A pit lake water elevation of 4230.13 feet amsl wa pressure transducer, a decrease of approximately 0. 21 feet since July 27, 2013. The pit lake elevation has risen approximately 1.772 feet since August 27, 2012.
- No new residences were added to the Bottled Water Program in August 2013. Two residences (DW"87 and DW"136) moved and their homes are curren tly unoccupied. Bottled water delivery to the two residences has stopped until the homes are occupied again.
- No changes to the domestic well sampling program o ccurred in August.
- Transmitted the 2Q 2013 Domestic Well Monitoring R eport (DWMR) on August 23.
- Continued to compile information for the 2Q 2013 G roundwater Monitoring Report (GMR).
- Performed the 3Q 2013 groundwater monitoring event during the first half of August.
- Prepared for the 3Q 2013 domestic well monitoring event.
- Continued modifications to the Revised Groundwater (OU"1) RI Work Plan, and associated appendices and attachments, based on EPA comments received on February 27.
- Continued pre"drilling activities associated with the Additional Monitor Well Work Plan (e.g., access agreements for off"Site locations, procureme nt of a drilling contractor and contracting with a utility locator for on "Site locations). Continued the development of responses to EPA comments on the Work Plan, which were received on July 29, and modifications to the Work Plan.
- Continued the evaluation of hydrologic tracer data and the preparation of the Hydrologic Tracer Data Summary Report (DSR).
- Transmitted final responses to EPA comments on the Of the Groundwater Study Area, and the revised Tech Memo, to EPA on August 5.
- Continued groundwater flow modeling activities.
- Continued geochemical modeling of groundwater qual ity data and interpretation of results.
- Continued to compile and evaluate analytical data from standing water samples that were collected from various locations on the Site after the July 4 precipitation event.
- Installed HydraSleeve[™] samplers in well WW"10 on A apart from the top of the water column (approximate depth of 460 feet below top"of"casing. Intervals w conductivity logs, which showed no significant variations with depth through the water column.
- Field work continued during the periods of August 2"12 and 16"19 for the OU"3 sub"surface utility and dry well investigation, which included pad demo lition at fuel filling stations, excavation to determine if USTs are present in the Process Areas, and soil sampling of impacted soils.
- Discussed the next steps for the OU"3 sub"surface utility and dry well investigations, and the revisions to the OU"3 FSAP, with CH2M Hill personne I on August 28 via conference call.
- Continued work on the DSR for the OU"3 sub"surface utility and dry well investigations.
- Initiated the responses to EPA comments on the dra ft OU"3 Field Sampling and Analysis Plan (FSAP), and initiated modifications to the revised FSAP.
- Routine database management activities and support of Site investigations and reports.

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Planned September/October 2013 Activities

Site Security and O&M Activities

- Continue routine Site O&M, security and bird deter rent activities.
- As needed, assist EPA and NDEP with FMS capacity i nformation.

Site Characterization Activities

- Continue groundwater elevation and pit lake level measurements, and meteorological monitoring.
- Continue the Bottled Water Program.
- Transmit the 2Q 2013 GMR.
- Perform the 3Q 2013 domestic well monitoring event event in September and October, respectively, and c ompile available data for inclusion in the 3Q 2013 GMR and the 3Q 2013 DWMR.
- Continue to prepare the Preliminary Bedrock Well I nvestigation DSR.
- Complete the compilation of hydrologic tracer data from the May 2012 sampling event, and transmit the DSR to EPA in October.
- Continue to modify the revised Site"Wide Groundwat er (OU"1) RI Work Plan and prepare responses to EPA comments.
- Initiate field activities for the Additional Monit or Well Work Plan including the mobilization of two sonic core drill rigs to the Site, and transmit a revised Work Plan and associated responses to EPA comments.
- Continue geochemical modeling activities in suppor t of future fate and transport analysis.
- Continue aquifer solids testing activities.
- Continue to develop a Work Plan for supplemental c haracterization activities for the Evaporation Ponds and the northern portion of the Calcine Ditch.
- Complete remaining Phase II geophysical and soil investigations associated with sub"surface utilities in the Process Areas, and continue to compile the data. Continue preparation of the DSR when all geophysical and analytical data become available.
- Complete and transmit to EPA the revised FSAP, and associated responses to EPA comments on the draft FSAP, in accordance with the revised O U"3 RI Work Plan.
- Initiate the collection of groundwater grab sample s from WW"10 in accordance with the OU"3 RI Work Plan.
- Review data quality objectives for the Wabuska Dra in (OU"7) RI Work Plan when received.
- Attend the public meeting in Yerington scheduled f or September 12.
- Attend a meeting with EPA and other project stakeh groundwater mitigation measures.

Please contact me at (714) 228"6774 or via e"mail a t jack.oman@bp.com if you have any questions or comments about the August 2013 monthly report.

Sincerely,

Jack Oman Project Manager

Attachment

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cc: Dave Seter, EPA - via electronic mail

Harry Ball, EPA - via electronic mail

Andrew Helmlinger, EPA - via electronic mail

Tom Dunkelman, EPA - via electronic mail

Greg Lovato, NDEP - via electronic mail

Jeryl Gardner, NDEP - via electronic mail

Tom Olsen, BLM – via electronic mail

Dan Newell, City of Yerington - via electronic mail

Phyllis Hunewill - via electronic mail

Virgil Arellano, Lyon County Commissioner - via ele ctronic mail

Rob Loveberg, Lyon County Planning Department – via electronic mail

Tom Grady, Nevada State Assembly - via electronic mail

Deborah Dunn, YPT - via electronic mail

Chairwoman Howard, YPT - via electronic mail

Dietrick McGinnis, McGinnis and Associates - via electronic mail

Tom Bowden, Ridolfi, Inc. - via electronic mail

Chairwoman McFalls, WRPT - via electronic mail

Tad Williams, WRPT - via electronic mail

Ron Halsey, Atlantic Richfield Company - via electronic mail

James Lucari, Atlantic Richfield Company - via electronic mail

Marc Ferries, Atlantic Richfield Company – via elec tronic mail

Brian Johnson, Atlantic Richfield Company - via electronic mail

John Batchelder, EnviroSolve – via electronic mail

Jim Chatham, Atlantic Richfield Company - via electronic mail

Rich Curley, Curley and Associates, LLC – via electronic mail

Bill Duffy, Davis Graham & Stubbs - via electronic mail

Tom Patton, Singatse Peak Services, LLP – via electronic mail

Steve Dischler, Singatse Peak Services, LLP – via e lectronic mail

George Eliopulos, Singatse Peak Services, LLP – via electronic mail

Taurus Massey, Singatse Peak Services, LLP – via electronic mail

David Peri, Peri and Sons - via electronic mail

Ken Greene, CH2M Hill - via electronic mail

Victor Early, Tetra Tech – via electronic mail

Colin Lee, Tetra Tech - via electronic mail

Peggy Pauly, YCAG - via electronic mail

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